SEQUENCE LISTING

#4

<110> Karn, Jonathan
      Walker, Stephen

<120> Methods and Compositions Utilizing Hepatitis C Virus Molecules

<130> 22620/1280

<140> 09/746,170
<141> 2000-12-22

<150> 60/171,804
<151> 1999-12-22

<160> 48

<170> PatentIn version 3.0

<210> 1
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 1

Thr Arg Lys Lys Lys Lys Lys Lys Arg Lys Gly Ser Gly
1   5   10

<210> 2
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 2

Thr Arg Lys Lys Lys Gln Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210> 3
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 3

Thr Arg Lys Lys Lys Gln Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210> 4
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 4

Thr Arg Lys Lys Lys Arg Gln Arg Arg Lys Gly Ser Gly

<210> 5
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 5

Thr Arg Lys Lys Gln Lys Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210> 6
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 6

Thr Arg Lys Lys Gln Lys Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210> 7
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 7

Thr Arg Lys Lys Gln Gln Gln Arg Arg Lys Gly Ser Gly
1   5   10

<210> 8
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 8

Thr Arg Lys Lys Gln Arg Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210> 9
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 9

Thr Arg Lys Lys Gln Arg Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210> 10
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 10

Thr Arg Lys Lys Arg Lys Gln Arg Arg Lys Gly Ser Gly
1   5   10

<210> 11
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 11

Thr Arg Lys Lys Arg Gln Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210> 12
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 12

Thr Arg Lys Lys Arg Gln Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210> 13
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 13

Thr Arg Lys Lys Arg Arg Gln Arg Arg Lys Gly Ser Gly
1   5   10

<210> 14
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 14

Thr Arg Lys Gln Lys Lys Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210> 15
<211> 13
<212> PRT
<213> Hepatitis C virus

<400> 15

Thr Arg Lys Gln Lys Lys Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210> 16
<211> 13

```
<212>  PRT
<213>  Hepatitis C virus

<400>  16

Thr Arg Lys Gln Lys Gln Gln Arg Arg Lys Gly Ser Gly
1               5                   10

<210>  17
<211>  13
<212>  PRT
<213>  Hepatitis C virus

<400>  17

Thr Arg Lys Gln Lys Arg Lys Arg Arg Lys Gly Ser Gly
1                5                  10

<210>  18
<211>  13
<212>  PRT
<213>  Hepatitis C virus

<400>  18

Thr Arg Lys Gln Lys Arg Arg Arg Arg Lys Gly Ser Gly
1               5                   10

<210>  19
<211>  13
<212>  PRT
<213>  Hepatitis C virus

<400>  19

Thr Arg Lys Gln Gln Lys Gln Arg Arg Lys Gly Ser Gly
1               5                   10

<210>  20
<211>  13
<212>  PRT
<213>  Hepatitis C virus

<400>  20

Thr Arg Lys Gln Gln Gln Lys Arg Arg Lys Gly Ser Gly
1               5                   10

<210>  21
<211>  13
<212>  PRT
<213>  Hepatitis C virus

<400>  21

Thr Arg Lys Gln Gln Gln Gln Gln Arg Lys Gly Ser Gly
1               5                   10
```

```
<210>    22
<211>    13
<212>    PRT
<213>    Hepatitis C virus

<400>    22

Thr Arg Lys Gln Gln Gln Arg Arg Arg Lys Gly Ser Gly
1                   5                   10


<210>    23
<211>    13
<212>    PRT
<213>    Hepatitis C virus

<400>    23

Thr Arg Lys Gln Gln Arg Gln Arg Arg Lys Gly Ser Gly
1                   5                   10


<210>    24
<211>    13
<212>    PRT
<213>    Hepatitis C virus

<400>    24

Thr Arg Lys Gln Arg Lys Gln Gln Arg Lys Gly Ser Gly
1                   5                   10


<210>    25
<211>    13
<212>    PRT
<213>    Hepatitis C virus

<400>    25

Thr Arg Lys Gln Arg Lys Lys Arg Arg Lys Gly Ser Gly
1                   5                   10


<210>    26
<211>    13
<212>    PRT
<213>    Hepatitis C virus

<400>    26

Thr Arg Lys Gln Arg Lys Arg Arg Arg Lys Gly Ser Gly
1                   5                   10


<210>    27
<211>    13
<212>    PRT
<213>    Hepatitis C virus

<400>    27
```

Thr Arg Lys Gln Arg Gln Gln Arg Arg Lys Gly Ser Gly
1   5   10

<210>   28
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   28

Thr Arg Lys Gln Arg Arg Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210>   29
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   29

Thr Arg Lys Gln Arg Arg Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210>   30
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   30

Thr Arg Lys Arg Gln Lys Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210>   31
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   31

Thr Arg Lys Arg Gln Lys Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210>   32
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   32

Thr Arg Lys Arg Gln Gln Gln Arg Arg Lys Gly Ser Gly
1   5   10

<210>   33
<211>   13
<212>   PRT

<213>   Hepatitis C virus

<400>   33

Thr Arg Lys Arg Gln Arg Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210>   34
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   34

Thr Arg Lys Arg Gln Arg Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210>   35
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   35

Thr Arg Lys Arg Arg Lys Gln Arg Arg Lys Gly Ser Gly
1   5   10

<210>   36
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   36

Thr Arg Lys Arg Arg Gln Lys Arg Arg Lys Gly Ser Gly
1   5   10

<210>   37
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   37

Thr Arg Lys Arg Arg Gln Arg Arg Arg Lys Gly Ser Gly
1   5   10

<210>   38
<211>   13
<212>   PRT
<213>   Hepatitis C virus

<400>   38

Thr Arg Lys Arg Arg Arg Gln Arg Arg Lys Gly Ser Gly
1   5   10

```
<210>  39
<211>  13
<212>  PRT
<213>  Hepatitis C virus

<400>  39

Thr Arg Lys Arg Arg Arg Arg Arg Lys Gly Ser Gly
1               5                   10


<210>  40
<211>  13
<212>  PRT
<213>  Hepatitis C virus

<400>  40

Thr Arg Lys Lys Lys Lys Gln Arg Arg Lys Gly Ser Gly
1               5                   10


<210>  41
<211>  28
<212>  RNA
<213>  Hepatitis C virus

<400>  41
gggacgaccg cuucggcgcu caaugccc                                           28



<210>  42
<211>  5
<212>  PRT
<213>  Hepatitis C virus

<400>  42

Arg Arg Arg Arg Arg
1               5


<210>  43
<211>  5
<212>  PRT
<213>  Hepatitis C virus

<400>  43

Lys Lys Gln Arg Arg
1               5


<210>  44
<211>  5
<212>  PRT
<213>  Hepatitis C virus

<400>  44

Lys Lys Lys Lys Lys
```

1   5

<210>   45
<211>   5
<212>   PRT
<213>   Hepatitis C virus

<400>   45

Lys Lys Lys Gln Arg
1   5

<210>   46
<211>   5
<212>   PRT
<213>   Hepatitis C virus

<400>   46

Lys Lys Arg Gln Arg
1   5

<210>   47
<211>   5
<212>   PRT
<213>   Hepatitis C virus

<400>   47

Lys Lys Gln Lys Arg
1   5

<210>   48
<211>   5
<212>   PRT
<213>   Hepatitis C virus

<400>   48

Gln Gln Gln Gln Gln
1   5